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Kwang Hee Moon^a, Hiroyuki Kashiwadani^{b,*} and Masashi Nakata^c: **Materials** for the Distribution of Lichens in Japan (17) Leptogium subtile (Schrader) Torss.

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Summary: Leptogium subtile (Schrader) Torss. was found in two localities in Toyama Pref., central Honshu, Japan. This is the second report for the species in Japan. They have fertile apothecia and well developed thalli and the diagnostic features on them are described based on Japanese specimens.

In 2006 and 2010, the authors found a tiny foliose species of the genus Leptogium over mosses growing on the trunk base of Cercidiphyllum japonicum in Nanto-shi and Nakaniikawa-gun, Toyama Prefecture, Honshu, Japan, at an elevation of 155 to 630 m. They have the following diagnostic characters: thallus gray to dark grayish brown, loosely attached to the substrate by lobe ends; lobes very small, 0.3-1 mm wide, lobe margins dividing into terete or more or less flattened extensions (0.02–0.03 mm wide and 0.05–0.1 mm long); upper surface smooth; lower surface smooth, without rhizines; inside of thallus paraplectenchymatous. The apothecia scattered, lecanorine, 0.2-0.3 mm in diameter; the discs brown, epruinose; the margin entire, olive buff. Spores colorless, fusiform, submuriform, 1-2 / 5-6 septate, $22-23 \times 8-9$ um in size. These features coincide very well with the exsiccatae cited below.

This species resembles L. lichenoides in having isidia-like extensions on lobe margins. However, the latter species differs in having wrinkled upper surface of lobes and larger spores $35-45 \times 12-15 \, \mu m$ in size). In addition, L. subtile is a corticolous species, whereas L. lichenoides is a saxicolous species found in calcareous rocks.

This species is widely distributed in the Northern Hemisphere, having been reported from Canada (Goward and Ahti 1992), Europe (Christensen et al. 1997, Purvis et al. 1992), India (Kumar and Sequiera 2001) and Japan (Kashiwadani et al. 2001). The very few reports of this species from Japan seem to be due to the lack of attention, not due to lack of natural habitat

Specimen examined: JAPAN. Honshu. Prov. Etchu (Toyama Pref.): Ohiwa, Kamiichi-machi, Nakaniikawagun, over mosses on bark of Cercidiphyllum japonicum, alt. 155 m, 14 November 2010, H. Kashiwadani 48992 (TNS); Momosegawa, Toga-mura, Nanto-shi, over mosses on bark of Cercidiphyllum japonicum along river, alt. ca. 630 m, 16 November 2006, K. H. Moon 11402 (TNS)

Exsiccatae examined. Magnusson, Lich. Sel. Scand. Exs. 314 (TNS). Vězda, Lich. Sel. Exs. 81 (TNS).

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Literature cited

Christensen S. N., Pisút I. and Sipman H. J. M. 1997.

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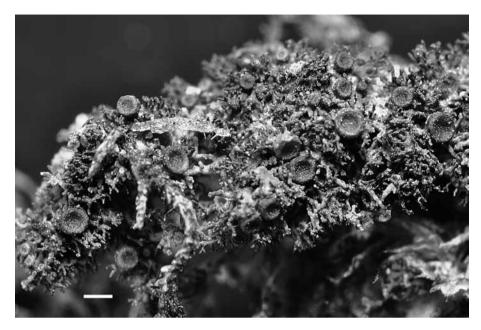


Fig. 1. Leptogium subtile (Schrader) Torss. (H. Kashiwadani 48992, TNS). Scale bar = 0.3 mm.

New and noteworthy lichen records from the Ionian island of Kerkira (Corfu), Greece. Wildenowia 27: 265–272.

Goward T. and Ahti T. 1992. Macrolichens and their zonal distribution in Wells Gray Provincial Park and its vicinity, British Columbia, Canada. Acta Bot. Fenn. **147**: 1–60.

Kashiwadani H., Inoue M., Moon K. H. and Sasaki K. 2002. Lichens of Ozegahara Moor and its adjacent areas, central Japan. Mem. Natn. Sci. Mus. Tokyo no. 38: 71–93.

Kumar M. and Sequiera S. 2001. On a collection of macrolichens from New Amarambalam Reserve Forests, southern Western Ghats, India. J. Econ. Taxon. Bot. 25: 239–246.

Purvis O. W., Coppins B. J., Hawksworth D. L., James P. W, and Moore D. M. 1992. Lichen Flora of Great Britain and Ireland. 710 pp. The British Lichen Society, Natural History Museum Publication, London.

地衣類分布資料 (17) タカネキノリ(文 光喜 ^a, 柏谷博之 ^b, 中田政司 ^c)

タカネキノリ Leptogium subtile は北半球に広く分布し、欧州、カナダ、インド、日本に産することが知られている。日本からは過去に一度だけ尾瀬ヶ原から無子器の標本に基づく報告がある (Kashiwadani et al. 2002). 最近、著者らは富山県レッドデータブック改訂にかかな調査の過程で、富山県の一か所でカツラの根元にコケ類と共に生育する本種を発見した。また、文も 2006 年に同県南砺市で本種を発見している。本種の地衣体は微細な葉状(幅 0.3–1 mm)で表面は灰色~灰褐色、裏面は灰白色、地衣体の端部で基物に付着する。裂片の周辺部には微細な円柱形或いはやや背腹性のある突起(幅 0.02–0.03 mm、長さ 0.05–0.1 mm)を密生する。突

起は時に二叉分枝をくり返す.子器はレカノラ型,径 0.2–0.3 mm,盤は褐色,縁は明瞭,突起などは生じない.胞子は紡錘形で submuriform,1–2 本の縦隔壁と6–7本の横隔壁を持ち大きさは22– 23×8 –9 μ m である.裂片の周辺が細裂する点で日本産のヒメトサカゴケ L. lichenoides に似るが,ヒメトサカゴケは地衣体表面に微細な皺を持ち,胞子も長さ 35 μ m 以上となることで区別できる.また,本種が樹皮生であるのに対し,ヒメトサカゴケの生育は石灰の岩上に限られている.

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